engaging the notched portion of the upper rail, substantially as shown and described.

No. 29,830. Pic Plate Lifter.

(Manche de tourtière.)

Amos L. Pomeroy, Sand Lake, N. Y., U. S., 7th September, 1888; 5 voars.

Claim. In a pie plate lifter, the combination, with a pair of lifter arms provided with coiled wire springs, of a supporting frame provided with wire-receiving eyes, and a pair of levers provided at one end with arm supporting guides, at the opposite end with opporating bandles, and intermediately with coil-supporting hubs, through which the levers are pivoted to the supporting frame, substantially endoscribed.

No. 29,831. Mowing and Reaping Machine.

(Faucheuse-moissonneuse.)

William H. H. Hoydrick, Philadelphia, Penn., U.S., 7th September, 1888; 5 years.

Claim.—1st. The guard finger B, with front projections G, and having the shoulders Land S thereon, in combination with the finger bar A, the rear end of said shoulder L projecting into a noich in the forward edge of the rocking ledger plate F, having a grooved channel in its under face, and its rear end projecting above the finger bar, and the cutter bar R with cutter C, the said cutter bar abutting against the rear end of the rocking ledger plate, substantially as and for the purpose set forth. 2nd. The combination of the several numbered in during the purpose F vertal conduction. members on ungrated in claim 1, with the bolt D and keeper E, substantially as described.

No. 29,832. Frame for Upright Pianos.

(Boîte de piano droit.)

Charles Bunce and Edwin II. Benedict, Brooklyn (assignees of Mary II. McDonald, administratrix of the estate of James McDonald, New York), N.Y., U.S., 7th September, 1888; 5 years.

Charles Bunce and Edwin II. Benedict, Brooklyn (assignees of Mary H. McDonald, administrative of the estate of James McDonald, New York), N.Y., U.S., 7th September, 1888; 5 years.

Claim.—1st. A metallic frame for pianos, comprising in a single piece longitudinal parallel bars, proportioned in length to the length of the strings and in line with the strings, a marginal plate, hitch pius on said marginal plate, a continuous flange for the support of the sounding board, a hammer bridge, a top plate above the hammer bridge having an overhanging flange for the retention of the wrist plank, said top plate being formed with said parallel bars, which extend above the hammer bridge, between it and said top plate, said down-bearing bar being connected to the bridge by intermediate brackets, substantially as set forth. 2nd. The metallic frame, having a supporting flange for the sounding board, in combination with the sounding board resting on said flange, wooden strips on the outer surface of the sounding board, and attaching screws extending through said flange and board and into said strips, substantially as set forth. 3rd The metallic frame, having marginal plate or ring, the hitch pins thereon, and a supporting flange for the sounding board, in combination with the sounding board resting on said strips on said strips on said sounding board, in combination with the sounding board resting on said flange, and strips on said sounding board in board resting on said sounding board, in combination with the sounding board resting on said strips, and hold said sounding board in place, substantially as set forth. 4th. The metallic frame, having in one piece longitudinal bars, hammer bridge, and top plate having an overhanging flange, said top plate heigh and plate having an overhanging flange, substantially as set form. 5th. The metallic frame, having an overhanging flange, substantially as set form. 5th. The metallic frame, having hammer bridge, top plate having overhanging flange, and tone the said space, and which is held b

No. 29,833. Washing Machine.

(Machine à blanchir)

William H. Hornby, Toronto, and Lucas M. Lent, Radgetown, Ont., 7th September, 1888, 5 years.

Claim—1st. In a washing machine, the combination of the levers N, N1, with centre connection II and bearings of said levers in slots dI, dI, and adjustable handles h1, h11 and rest blocks n, substantially as and for the purpose hereinbefore set forth. 2nd. The combination of the angle neces, with pivot P, as specified, and the slot h and mortice 1, in the upright of rubber, substantially as and for the purpose hereinbefore set forth. 3rd. In a washing machine, the tray or folding slide P, substantially as and for the purpose hereinbefore set forth.

No. 29,834. Method of Filling Secondary Battery Plates. (Mamère de charger les plaques des batteries secondaires.)

Henry G. Morris and Pedro C. Salom, Philadelphia, Penn., U.S., 7th September, 1888; 5 years.

Claim.-1st. The mode herein described, of forming secondary bat-

tery plates, said mode consisting in filling the cells or interstices of the and with powdered active material, placing a uniform layer of said active material on one or both sides of the grid, and then compressing the surplus material into the cells of the grid. Ind. The mode described of filling a secondary battery plate, said mode consisting in mounting the grid on a supporting plate, applying a relaming freme to the top of the grid, placing the active material in the cells of the grid, and piling if above the saine, removing the surplus material until it is lovel with the top of the retaining frame, and then removing the latter, and compressing the surplus material in the cells of the grid. 3rd. The mode described of filling a secondary battery plate, said mode consisting in mounting the grid on a supporting plate, applying a retaining frame to the top of the grid, filling the cells of the latter with active material, and piling the latter above the same, removing the surplus material until it is lovel with the top of the retaining frame, then reversing the grid and repenting the operation on the other side of the same, and finally compressing the two layers of surplus material into the cells of the grid.

No. 29.835. Holder for Bed Covers.

(Attache-couverture de lit.)

Claim.—The herein described attachment, composed of the rod, the attaching straps at the ends of the rod, whereby the latter may be readily attached and detached by hind without the use of a screw-driver or similar implement, the holding straps secured to the rod at intermediate points, and the fastener at the outer ends of the holding straps, for connecting the same with the covers, substantially as set forth. Maud C. Murray, Bardstown, Ky., U.S., 7th September, 1888; 5 years

No. 29,836. Telephone Transmitter.

(Transmetteur téléphonique.)

The Bell Telephone Company, (assignee of Charles W. Warren), Montreal, Que., 8th September, 1883; 15 years.

The Bell Telephone Company, (assignee of Charles W. Warren). Montreal, Que., 8th September, 188; 15 years.

Cleim.—18t. In a telephone transmitter employing granulated conducting material as the carrent varying medium, the combination of a vibratory diaphragm having free edges, with a vertically mount of granulation containing cell, comprising a vertical metal brekplate a rigid non-conducting annular side wall, an olastic and yielding metal front plate acting as an auxiliary vibrating diaphragm, a mass of granulated conducting annular side wall, an olastic and yielding metal front plate acting as an auxiliary vibrating diaphragm, a mass of granulated camping the same, and a rod attached to the centre of the same can be active to the sam